

Detailed program

Monday, June 25

08:30	Registration
09:00	Opening
Session 1	Artificial Intelligence - Session chair: Márk Jelasity, Room: Szőkefalvi-Nagy
09:15	Gergely Pap, Tamás Grósz, László Tóth: <i>Semi-Supervised Training of Cell-Classifier Neural Networks</i>
09:35	László Tóth: <i>Preliminary Concepts for Requirements Mining and Classification using Hidden Markov Model</i>
09:55	Yangyuan Li, Tien Van Do: <i>Long Short-term Memory Recurrent Neural Networks Models to Forecast the Resource Usage of MapReduce Applications</i>
10:15	Ádám Budai, Kristóf Csorba: <i>Deep Reinforcement Learning: A Study of the CartPole Problem</i>
Session 2	Static Analysis - session chair: Judit Jász, Room: Vályi
09:15	Péter Gál, Edit Pengő: <i>Primitive Enthusiasm: A Road to Primitive Obsession</i>
09:35	András Kicsi, Viktor Csuvik: <i>Feature Level Metrics Based on Size and Similarity in Software Product Line Adoption</i>
09:55	Edit Pengő, Zoltán Ságodi, Ervin Kóbor: <i>Who Are You not gonna Call? A Definitive Comparison of Java Static Call Graph Creator Tools</i>
10:15	Tibor Brunner, Péter Szécsi, Zoltan Porkoláb: <i>Bug Path Reduction Strategies for Symbolic Execution</i>
10:35	Break
Session 3	Cloud Computing I. - session chair: Richárd Farkas, Room: Szőkefalvi-Nagy
11:00	Biswajeeban Mishra: <i>Evaluating Performance of MQTT Brokers</i>
11:20	Yangyuan Li, Tien Van Do: <i>Regression Models to Predict the Resource Usage of MapReduce Applications</i>
11:40	András Márkus, Attila Kertész: <i>Multi-Cloud Management Strategies for Simulating IoT Applications</i>
12:00	Binh Lam Van Thanh: <i>Should we Ignore the Practical Aspects in Modelling Server Clusters?</i>
12:20	Ádám Belákovics, Arnold Czémán, Imre Szeberényi: <i>Designing and Testing VM Allocation Algorithms for the CIRCLE Cloud Manager</i>
Session 4	Testing - session chair: Ákos Kiss, Room: Vályi
11:00	Dániel Lukács, Gergely Pongrácz, Máté Tejfel: <i>Keeping P4 Switches Fast and Fault-free through Automatic Verification</i>
11:20	Gabriella Tóth, Máté Tejfel: <i>Axiom-based Property Verification for P4 Programs</i>
11:40	Nadera Aljawabrah, Tamás Gergely: <i>Visualization of Test-to-code Relations to Detect Problems of Unit Tests</i>
12:00	Gábor Horváth, Réka Kovács, Péter Szécsi: <i>Towards Proper Differential Analysis of Static Analysis Engine Changes</i>
12:40	Lunch
14:00	Plenary Talk - Room: Bolyai Bálint Daróczy: <i>Riemann manifolds and hierarchical structures</i>
14:50	Break

Session 5	Cloud Computing II. - session chair: Tamás Vinkó, Room: Szőkefalvi-Nagy
15:10	Andrea Huszti, Norbert Oláh: <i>Identity-Based Cloud Authentication Protocol</i>
15:30	Zoltán Richárd Jánki, Vilmos Bilicki: <i>Full-stack FHIR-based MBaaS with Server- and Client-side Caching Capable WebDAO</i>
15:50	Zoltán Szabó, Vilmos Bilicki: <i>FHIR-based Healthcare System Backend with Deep Cloud Side Security</i>
16:10	Attila Selmecsi, István Orosz: <i>Software as a Service Operation Model in Cloud Based ERP Systems</i>
Session 6	Image Processing I. - session chair: Gábor Németh, Room: Vályi
15:10	Judit Szűcs, Péter Balázs: <i>Strip Constrained Binary Tomography</i>
15:30	Gábor Lékó, Péter Balázs, László Varga: <i>Projection Selection with Sequential Selection Methods using Different Evaluation Measures</i>
15:50	Ákos Tóth, Roland Kunkli: <i>An Approximative and Semi-automated Method to Create MPEG-4 Compliant Human Face Models</i>
16:10	Csaba Bálint, Gábor Valasek: <i>Operations on Signed Distance Functions</i>
16:30	Break
Session 7	Education - session chair: József Dániel Dombi, Room: Szőkefalvi-Nagy
16:50	Sándor Balázs Domonkos, Tamás Németh: <i>Use data mining methods in quality measurement in the education systems</i>
17:10	Chaman Verma, Veronika Stoffová, Zoltán Illés, Sanjay Dahiya: <i>Gender classification Model of European school student's towards Computer Learning</i>
17:30	Enikő Ilyés: <i>Agile method in education</i>
Session 8	Image Processing II. - session chair: Péter Balázs, Room: Vályi
16:50	György Kalmár, Alexandra Büki, Gabriella Kékesi, Gyöngyi Horváth, László G. Nyúl: <i>Feature Extraction and Classification for Pupillary Images of Rats</i>
17:10	Márton Véges and Viktor Varga: <i>Monocular Estimation of 3D Poses from a Distance</i>
17:30	Viktor Varga and Márton Véges: <i>Exploiting Temporal Context in 2d to 3d Human Pose Regression</i>
17:50	Máté Csákvári and András Sárkány: <i>Towards the Understanding of Object Manipulations by Means of Combining Common Sense Rules and Deep Networks</i>
18:10	Free program
19:00	Reception at the Rector's Building

Tuesday, June 28

09:00	Registration
Session 9	Optimization - session chair: Boglárka Gazdag-Tóth, Room: Szőkefalvi-Nagy
09:15	Viktor Homolya: <i>Graph-based Analysis of Influence Spread</i>
09:35	Péter Hudoba, Péter Burcsi: <i>Multi Party Computation Motivated by the Birthday Problem</i>
09:55	Abigél Mester, Emilia Heinz, Balázs Bánhelyi, Elvira D. Antal, Edit Mikóné Jónás, József Horváth, Tibor Csendes: <i>Decision Support Heuristic for Dairy Farms</i>
10:15	Zsolt Mihály, Zsombor Sentes, Zoltán Lelkes: <i>Ant Colony Optimization Based Algorithm For Solving Scheduling Problems with Setup Times on Parallel Machines</i>
10:35	Break
Session 10	Algorithm - session chair: Gábor Gosztolya, Room: Szőkefalvi-Nagy
11:00	Ilku Krisztián János, Judit Tamás: <i>Topology-based Classification Error Calculation based on IndoorGML Document</i>
11:20	Kitti Gelle, Szabolcs Iván: <i>Lookahead can Help in Maximal Matching</i>
11:40	Dénes Bartha: <i>Reconstruction of Rooted Directed Trees</i>
12:00	Dávid Nagy, Tamás Mihálydeák, László Aszalos: <i>Different Types of Search Algorithms for Rough Sets</i>
12:20	Szabolcs Székér, Ágnes Vathy-Fogarassy: <i>Measuring the Similarity of two Cohorts in the n-dimensional Space</i>
12:40	Abrar Hussain, József Dombi: <i>Enhanced Adaptivity Fuzzy Control Using a New Type of Membership Function</i>
13:00	Lunch
14:00	Plenary Talk - Room: building of Hungarian Academy of Sciences, Somogyi utca 7. Michael Mackey: <i>Understanding, treating and avoiding hematological disease: Better medicine through mathematics?</i>
14:50	Free program
15:00	Social Program Visit the ELI-ALPS facility
19:00	Gala Dinner at the Rector's Building

Wednesday, June 29

09:00	Registration
Session 11	Programming Languages - session chair: Árpád Beszédes, Room: Szőkefalvi-Nagy
09:15	Sándor Bácsi, Gergely Mezei: <i>Towards a Classification to Facilitate the Design of Domain-Specific Visual Languages</i>
09:35	Zsolt Parragi, Zoltán Porkoláb: <i>Instantiation Context Aware Types in C++</i>
09:55	Norbert Luksa, Tamás Kozsik: <i>Parallelisation of Haskell Programs by Refactoring</i>
10:15	Péter Gál: <i>JavaScript-only Parallel Programming of Embedded Systems</i>
10:35	Break
11:00	Plenary Talk - Room: Bolyai Massimiliano Di Penta: <i>Empirical assessment of software engineering research: Pitfalls and solutions</i>
11:50	Break
Session 12	Evaluation - session chair: Zoltán Gingl, Room: Szőkefalvi-Nagy
12:00	Tibor Kovács, Gábor Simon, Gergely Mezei: <i>Benchmarking Graph Database Backends: What Works Well with Wikidata?</i>
12:20	Róbert Adrian Rill, Kinga Bettina Faragó: <i>Gaze-based Cursor Control Impairs Performance in Divided Attention</i>
12:40	Zsombor Paróczy: <i>LZ Based Compression Benchmark on PE Files</i>
13:00	Lunch
Session 13	Business Process - session chair: András London, Room: Szőkefalvi-Nagy
14:00	Dóra Mattyasovszky-Philipp, Bálint Molnár: <i>Cognitive Enterprise and Cognitive Information Systems</i>
14:20	Khawla Bouafia, Bálint Molnár: <i>Dynamic Business Process: Comparative Models and Workflow Patterns</i>
14:40	László Pusztai, Balázs Kocsi, István Budai, Lajos Nagy: <i>Industrial Process Modelling with Operations Research Method</i>
15:00	Closing
15:30	Farewall drinks